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NOTICE OF ALLOWANCE AND FEE(S) DUE

23117

7590

10/01/2009

NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203 EXAMINER

ABEDIN, SHANTO

ART UNIT PAPER NUMBER

2436

DATE MAILED: 10/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714.519	11/17/2003	Simon Charles Watt	550-480	6837

TITLE OF INVENTION: EXCEPTION TYPES WITHIN A SECURE PROCESSING SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/04/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 (571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 23117 7590 10/01/2009 Certificate of Mailing or Transmission NIXON & VANDERHYE, PC I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203 (Depositor's name (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/714.519 11/17/2003 Simon Charles Watt 550-480 6837 TITLE OF INVENTION: EXCEPTION TYPES WITHIN A SECURE PROCESSING SYSTEM APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 01/04/2010 **EXAMINER** ART UNIT CLASS-SUBCLASS ABEDIN, SHANTO 2436 713-200000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/714,519	11/17/2003	Simon Charles Watt	550-480	6837	
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NIXON & VANDERHYE, PC			ABEDIN, SHANTO		
	BE ROAD, 11TH FLO		ART UNIT	PAPER NUMBER	
ARLINGTON, VA	A 22203		2436		
			DATE MAILED: 10/01/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1075 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1075 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/714,519	WATT ET AL.		
Notice of Allowability	Examiner	Art Unit		
	SHANTO M. ABEDIN	2436		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS		
1. X This communication is responsive to the after final submiss	<u>sion on 09/21/2009</u> .			
2. The allowed claim(s) is/are <u>1,2,4-7,9,10,14-19,23-25,27-30</u>),32-34 and 36-47.			
3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the:				
 Certified copies of the priority documents have 				
Certified copies of the priority documents have	been received in Application No	·		
Copies of the certified copies of the priority do	cuments have been received in this i	national stage application from the		
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
(a) ☐ including changes required by the Notice of Dransperson's Faterit Drawing Neview (FFO-946) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date				
·— · · · · · · · · · · · · · · · · · ·				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).				
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5.	atent Application		
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	(PTO-413),		
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7.	e nent/Comment		
Paper No./Mail Date 4.	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance		
of Biological Material	9.			
/SHANTO M ABEDIN/				
Examiner, Art Unit 2436				

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DETAILED ACTION

1. This office action is in response to the communication filed on 09/21/2009.

2. The prior office actions are incorporated herein by reference. In particular, the observations with respect to claim language, and response to previously presented arguments.

- 3. Claims 1-2, 4-7, 9-10, 14-19, 23-25, 27-30, 32-34 and 36-47 are pending in the application.
- 4. Claims 1-2, 4-7, 9-10, 14-19, 23-25, 27-30, 32-34 and 36-47 are allowed.

RESPONSE TO ARGUMENTS

- 5. The applicant's arguments regarding objections to claim 47 and 35 USC 112 second paragraph type rejections of claim 17 are fully considered. The previous objections and 35 USC 112 second paragraph type rejections are withdrawn because of the amendments made to the claims.
- 6. The previous 35 USC 103(a) type rejections are withdrawn because of the amendments made to the claims.

EXAMINER'S REASONS FOR ALLOWANCE

7. The following is an examiner's statement of reasons for allowances:

Independent claims 1, 14, 17, 24 and 37 are patentable over the cited prior arts because they do not anticipate nor fairly and reasonably teach independently or in combination a apparatus/method comprising besides other limitations: processor configured to select said exception handler from among a plurality of possible exception handlers in dependence upon an exception vector value associated with said exception condition and stored within an active exception vector table for said exception condition and in dependence upon whether said processor is operating in said secure domain or said non-secure domain; and wherein said active exception vector table is one of a

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plurality of exception vector tables, and at least two of said one or more exception conditions have respective programmable configurations associated therewith that control triggering of either a non-secure exception handler operating in a non-secure mode or a secure exception handler operating in a secure mode with any change of domain also being triggered when required; and wherein said processor is also operable in a monitor mode and any switching between a secure mode and a non-secure mode required for handling of an exception takes place via said monitor mode, said processor being operable at least partially in said monitor mode to execute a monitor program to manage switching between said secure mode and said non-secure mode.

In particular, regarding independent claims 1, 14, 17, 24 and 37, patentability exists, at least in part, with the recitation of wherein said active exception vector table is one of a plurality of exception vector tables, and at least two of said one or more exception conditions have respective programmable configurations associated therewith that control triggering of either a non-secure exception handler operating in a non-secure mode or a secure exception handler operating in a secure mode with any change of domain also being triggered when required; and wherein said processor is also operable in a monitor mode and any switching between a secure mode and a non-secure mode required for handling of an exception takes place via said monitor mode, said processor being operable at least partially in said monitor mode to execute a monitor program to manage switching between said secure mode and said non-secure mode.

Dependent claims are allowed because of their dependencies on the allowable independent claim.

CONCLUSION

8. Claims 1-2, 4-7, 9-10, 14-19, 23-25, 27-30, 32-34 and 36-47 are patentable.

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9. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays should be clearly labeled "Comments on

Statement of Reasons for Allowance."

10. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Shanto M Z Abedin whose telephone number is 571-272-3551. The examiner

can normally be reached on M-F from 10:00 AM to 6:30 PM. If attempts to reach the examiner by

telephone are unsuccessful, the examiner's supervisor, Moazzami Nasser, can be reached on 571-

272-4195. The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR system,

see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shanto M. Abedin

Examiner, A.U. 2436

/Nasser G Moazzami/

Supervisory Patent Examiner, Art Unit 2436